5/2

DART AEROSPACE LTD		Work Order:	23314
Description: Doubler		Part Number:	D3302-3
Dwg: D3302 Rev. #8 81 01.12 16.	,	Qtv:	70
04.11.25 H			Page 1 of 1

Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Traveler Note: To be made in multiples of 10	98	05.05.13	20
,	MV	Cut blank: 14.300" x 9.100" // 550" Material: 6061-T6 (QQ-A-250/11) 0.063" thick (M6061T6S.063) Identify for D3302-3 Batch: M\7+400	/5A	Djaj/3	9
3	MV	Machine as per Folio FA450 and Dwg D3302 Stack of 10 Identify as D3302-3	Er	05/05/16	
4	QC2	Inspect parts as they come off the CNC machine	Ep	65/16	70
5	QC8	Second check	Bo	61.20.20	20
6	GA	Deburr break all unmarked sharp edges 0.005 to 0.010	7	05-05-25	
,7	GB	Form as per Dwg D3302	2	05.0F.05	20
. 8	QC5	Inspect work to Step 7	SB	05/37/05	20
9	FP	Chemical Conversion Coat as per QSI 005 4.1	FF	05,27.06	20
10 .	QC3	Inspect Chemical Conversion Coat	9	5.07.11	20
11	ST	Identify and Stock	CL	05/07/11	ეე 20
12	AC	Cost / part 16.59	R	05/07/15	20
13	DC	Close W/O 15.53 Inspect Level 21	3	05/07/12	<i>∂</i> •0

RevDateChangeRevised ByApprovedA04.09.02New issueKJ/JLM

RELEASED

H:\Forms\Quality Assurance\Approved QA\IPPSHORT revA

Dart Aerospace Ltd

W/O:	W/O: WORK ORDER CHANGES							***					
DATE	STEP	PROCEDURE CHANGE			PROCEDURE CHANGE		PROCEDURE CHANGE By		PROCEDURE CHANGE By Date		Date Qty Approval Mfg / Design Mgr		Approval QC Inspector
				'A	4,								
					:								

NCR:	23314	W	ORK ORI	DER NON-CONFORMANCE	E (NCR)			
,		Description of NC		Corrective Action Section B		Verification	Annroyal	Approval
DATE STEP		Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr	QC Inspector
osloslic	3	the length was too short of .040 .032	O5.05.16	Acceptable this fine as long as Sinal bend dimensione are within tolprone		0501.12	passes	19 05-10
				•				
		·						
Part No	o:	PAR #: F	ault Catego	pry: Par machined Packs NCR: Yes	No D	QA:		25/07/13
NOTE: D	ate & initi	ial all entries		,	· N/C Clo	sed:	Date: 0	. 07. 12

Part No:
NOTE: Date & initial all entries

QA: N/C Closed:

Date: <u>05/07/1</u>2 Date: <u>M. 67, 12</u>

DART AEROSPACE L	TD	Work Order:	23314
:	1		
Description: Doubler	29	Part Number:	D3302-3
Inspection Dwg: D3302	Rev: AB B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

	Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	Dimension 14.202	+/-0.010	14.420		•	H-asse	
16	- 12.50	+/-0.030	12.750			M-Topo	
	0.851	+/-0.010	0.853			M-Tape Ven Ven	
	0.851	+/-0.010	0.851	. ~		Ven	
ì	5.952 9.042	+/-0.010	8.960			H-G	
7	35 ^{7.34}	+/-0.030	7.250			H-G- M-Tape	
	5.000					/	
	1:000 pitch	+/-0:005-					
	R0.12	+/-0.030 [,]	RO.125			R-6	
	1-031						
	- 2:021	+/=0.010					
	_ 1:101	1/-0.010	·		·		
	-41.250	±/-0-005					
	4:125 pilch	+/ 0.005					
	4-476	+/-0.010:					
	7.101	1/-0.040~					
	· 0:063	1/-0.010>					
	- Ø0.098						
				-			

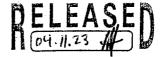
Measured by:	ml	Audited by:	Prototype Approval:	N/A
Date:	05/05/16	· Date: 05/05/16	Date:	N/A
				/

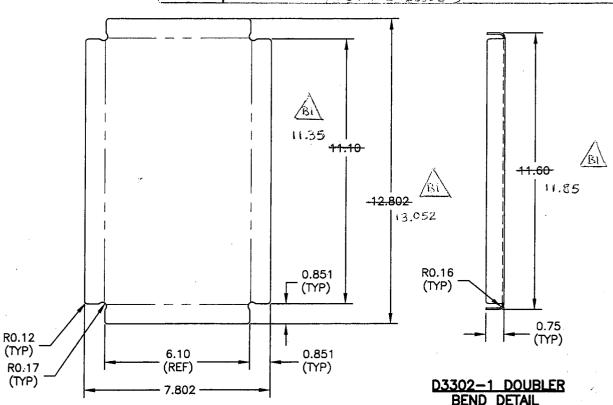
Rev	Date	Change	Revised by	Approved
Α	04.09.03	New Issue	KJ/JLM \angle	12//
	······································			



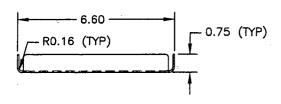


DESIG	DESIGN DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
CHEC	KED	APPROVED	DRAWING NO. REV. B			
	-11	-#	D3302 SHEET 1 OF 4			
DATE	****		TITLE SCALE			
04.	11.18		DOUBLER 1:4			
A		04.07.06	NEW ISSUE			
В	.,	04.11.18	REMOVE HOLES			
Bi	A 7	F 04.12.15	ADDED 0.25" TO THE LEWSTH FOR -1/-3			
B2	# 7	\$ 05.03.21	7.25 WAS 7.34: 8.952 WAS 9.042; 7175 WAS 7.84 FOR D3302-3			





D3302-1 FLAT PATTERN



SHOP COPY

RETURN TO ENG INT

UNCONTE! T T T T T T T T T T T THOUST POTTOE

WORK ORDER

D3302-1 NOTES:

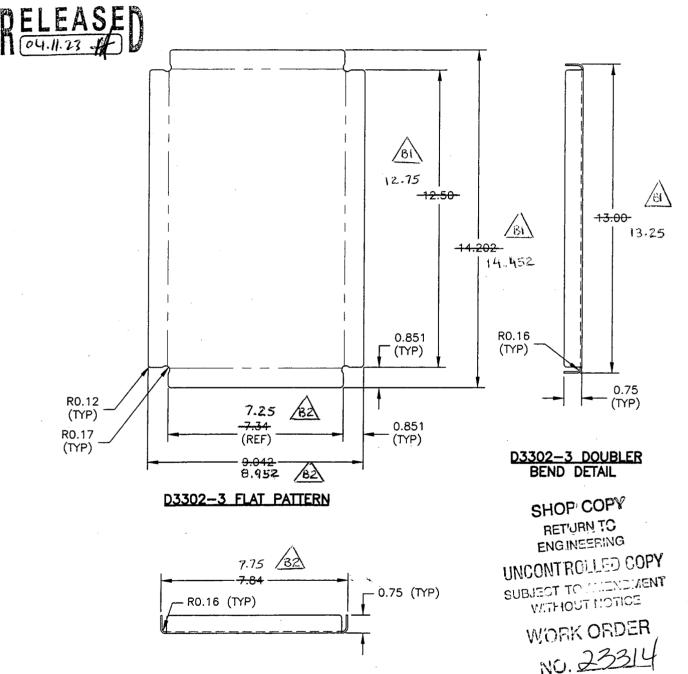
- 1) MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (REF. DART SPEC. M6061T6S.063) 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 4) ALL DIMENSIONS ARE IN INCHES
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 6) IDENTIFY WITH DART P/N & B/N USING FINE POINT PERMANENT MARKER

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN	DRAWN BY	_	AEROSPACE LTD ESBURY, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.	REV. B
#	-	D3302	SHEET 2 OF 4
DATE		TITLE	SCALE
04.11.18	•	DOUBLER	1:4



D3302-3 NOTES:

- MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (REF. DART SPEC. M6061T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 BREAK ALL SHARP EDGES 0.005 TO 0.010

- ALL DIMENSIONS ARE IN INCHES
 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- IDENTIFY WITH DART P/N & BATCH USING FINE POINT PERMANENT MARKER

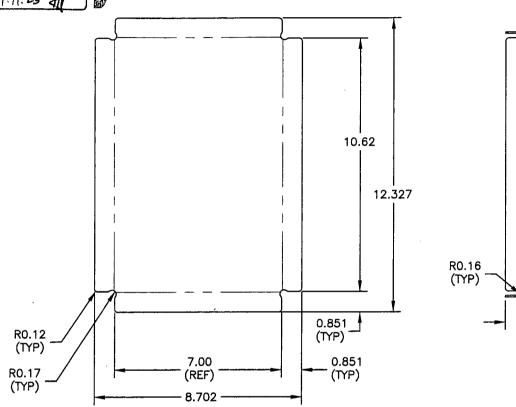
Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN	DRAWN BY		ROSPACE LTD RY, ONTARIO, CANADA
CHECKED !	APPROVED /	DRAWING NO.	REV. B
#	#	D3302	SHEET 3 OF 4
DATE		TITLE	SCALE
04.11.08		DOUBLER	1:4





D3302-5 FLAT PATTERN

- 7.50 0.75 (TYP) R0.16 (TYP)

D3302-5 DOUBLER BEND DETAIL

SHOP COPY

RETURN TO

ENGINITIES'S

Uning TECT FOR COPY

TT' LIDMENT

11.13

0.75

(TYP)

EDITON INDITIO

While ORDER

D3302-5 NOTES:

1) MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (REF. DART SPEC. M606TT6S.063)

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 3) BREAK ALL SHARP EDGES 0.005 TO 0.010

ALL DIMENSIONS ARE IN INCHES

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

6) IDENTIFY WITH DART P/N & B/N USING FINE POINT PERMANENT MARKER

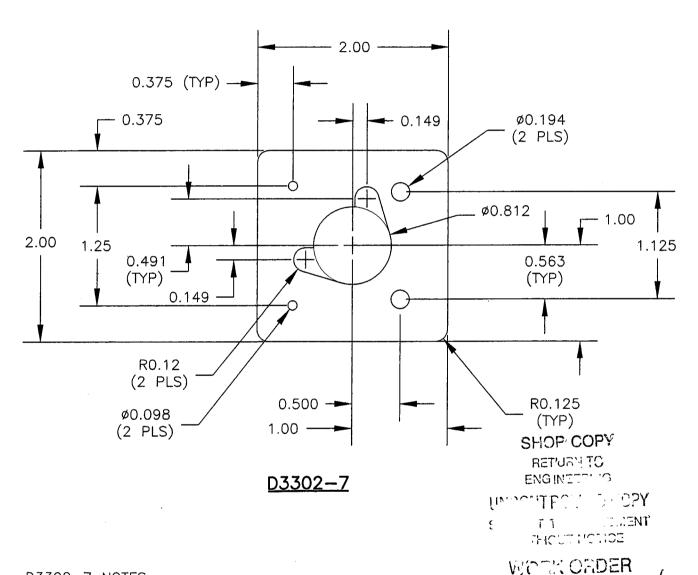
Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN RF	DRAWN BY		OSPACE LTD ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.	REV. B SHEET 4 OF 4
DATE		TITLE	SCALE
04.11.18		DOUBLER	1:1





D3302-7 NOTES:

- 1) MATERIAL: 5052-H32 OR 6061-T6 (QQ-A-250/8 OR QQ-A-250/11) 0.040 THICK (REF. DART SPEC. M5052H32S.040)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED 6) IDENTIFY WITH DART P/N & B/N USING FINE POINT PERMANENT MARKER

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

Job Costing Report

Dart Aerospace Lt Hawkesbury	d.	Ç			May 13 10:40		
Work Order No Project Name Project For Work Order Type Main WO Number House Part Number Description : D Manufactured : Y Amount Req'd : Amount Done :	: : : oul es	oler. 20 0		Department Burden Fla WO Status Invoice St Invoice Da Invoice Nu Invoice Am Order Entr	gs : NNNNNI : Open ate : Not In te : mber : ount : y No :	nvoiced	
Start Date Est Finish Date Act Finish Date Drawings Reqd Ok for Approval	:	05-13-05 05-20-05 No		OE Value Est Mark U Actual Mar		0.00 000% 000%	
Approval Rec'd	:			\$0 Posted	to Finished (Goods .	
		Estimated	Actual	Var. %	Posted	To Post	
Material Cost	:	0.00	0.00	0.00	0.00	0.00	_,
Engineering Hours Engineering Cost	:	0.00	0.00	0.00	0.00	0.00	
Production Hours Production Cost	:	0.00 0.00	0.00	0.00 0.00	0.00	0.00	
Packaging Hours Packaging Cost	:	0.00	0.00	0.00	0.00	0.00	
OverHead Hours OverHead Cost	:	0.00	0.00	0.00	0.00	0.00	
CNC Hours	:	0.00	0.00	0.00	0:00	0.00	
Misc. Hours Misc.	:	0.00	0.00	0.00	0.00	0.00	
Burden	:	0.00	0.00	0.00			
Total Cost Mark up	:	0.00	0.00	0.00			
Selling Cost	:	0.00	0.00				

Actual

0.00

Estimated

0.00

Labour Hrs/Amount Done : Profits/(Loss) :